66E160 591h6E60

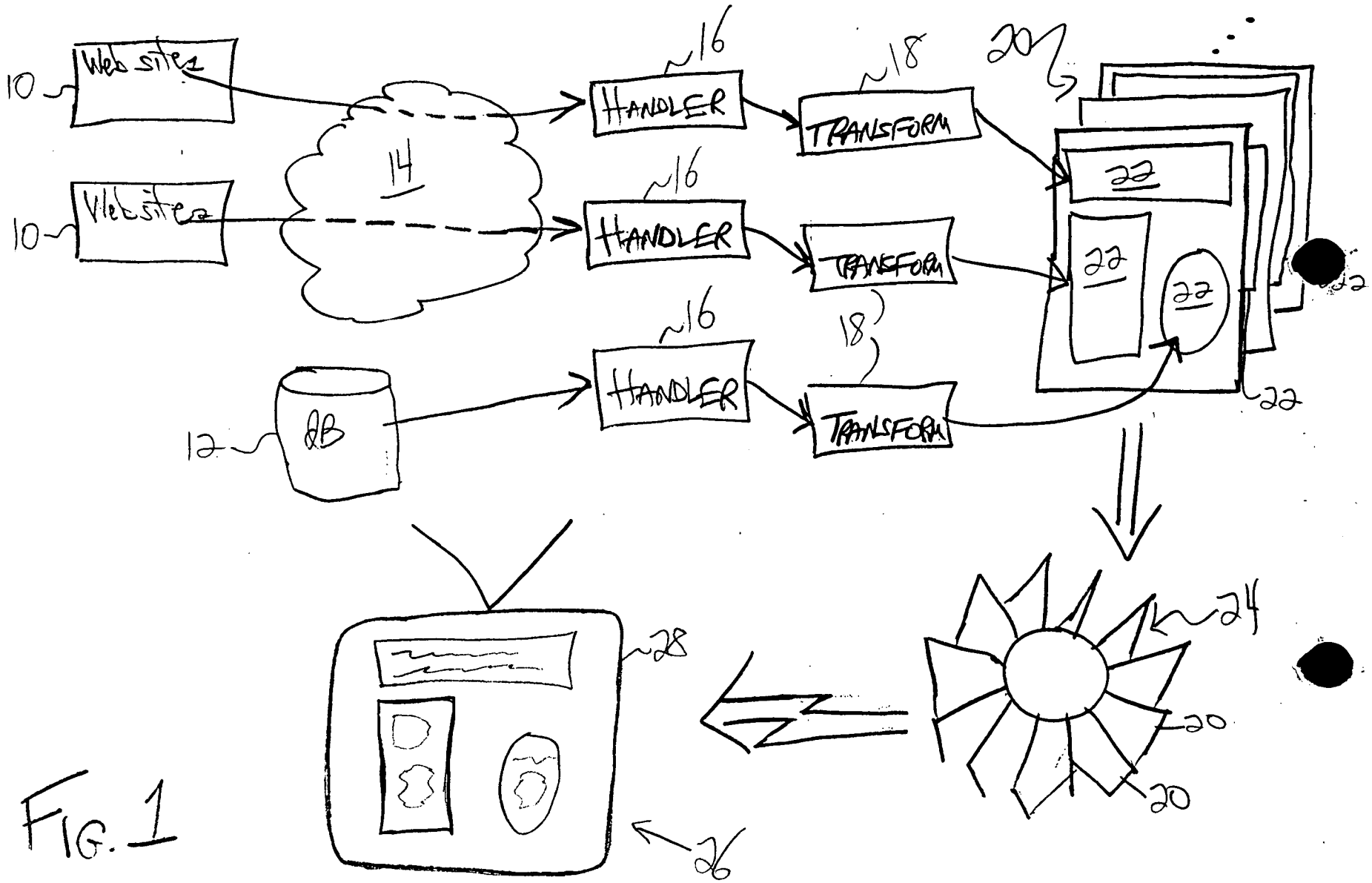
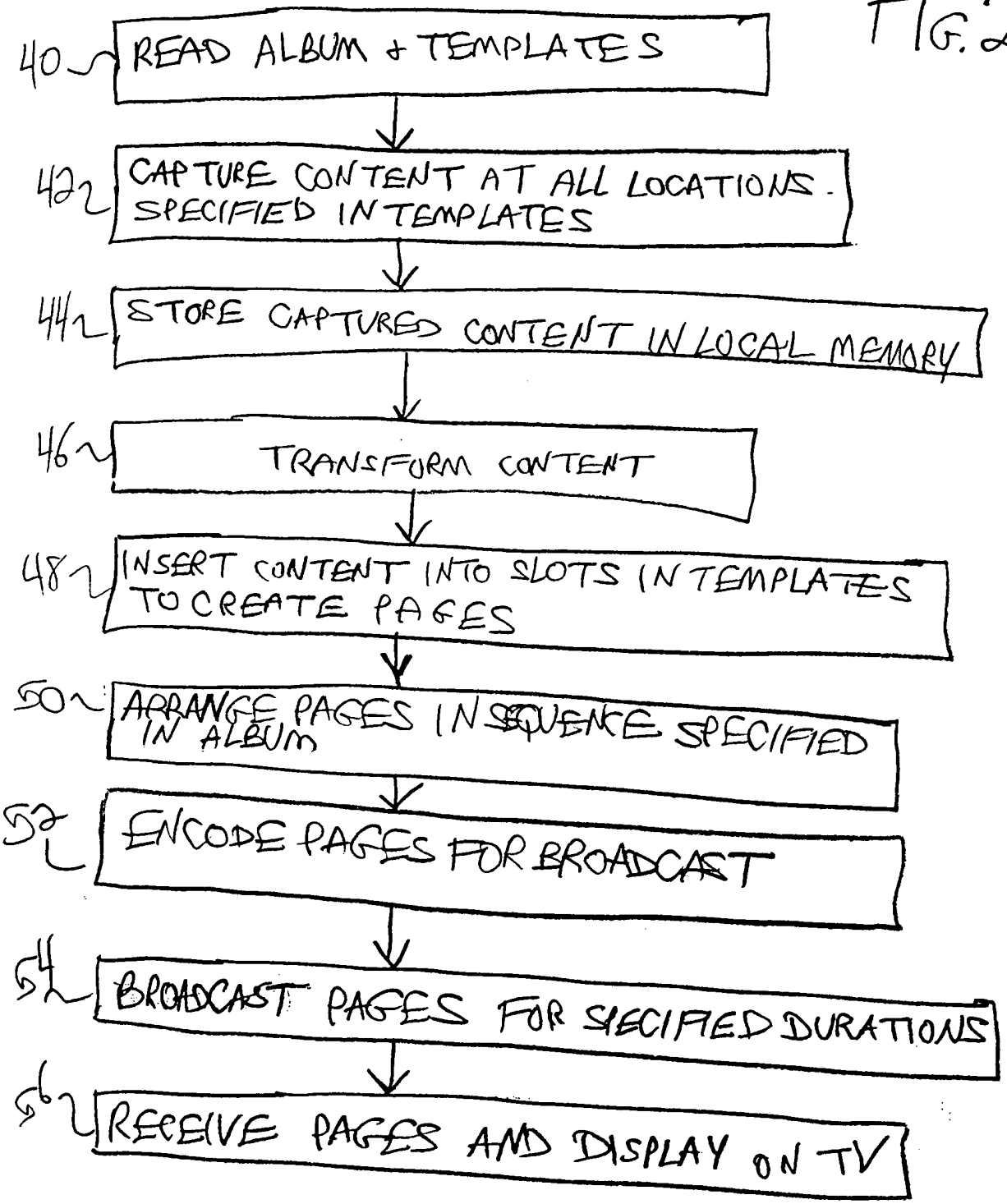


FIG. 1

FIG. 2



60,160,594,600

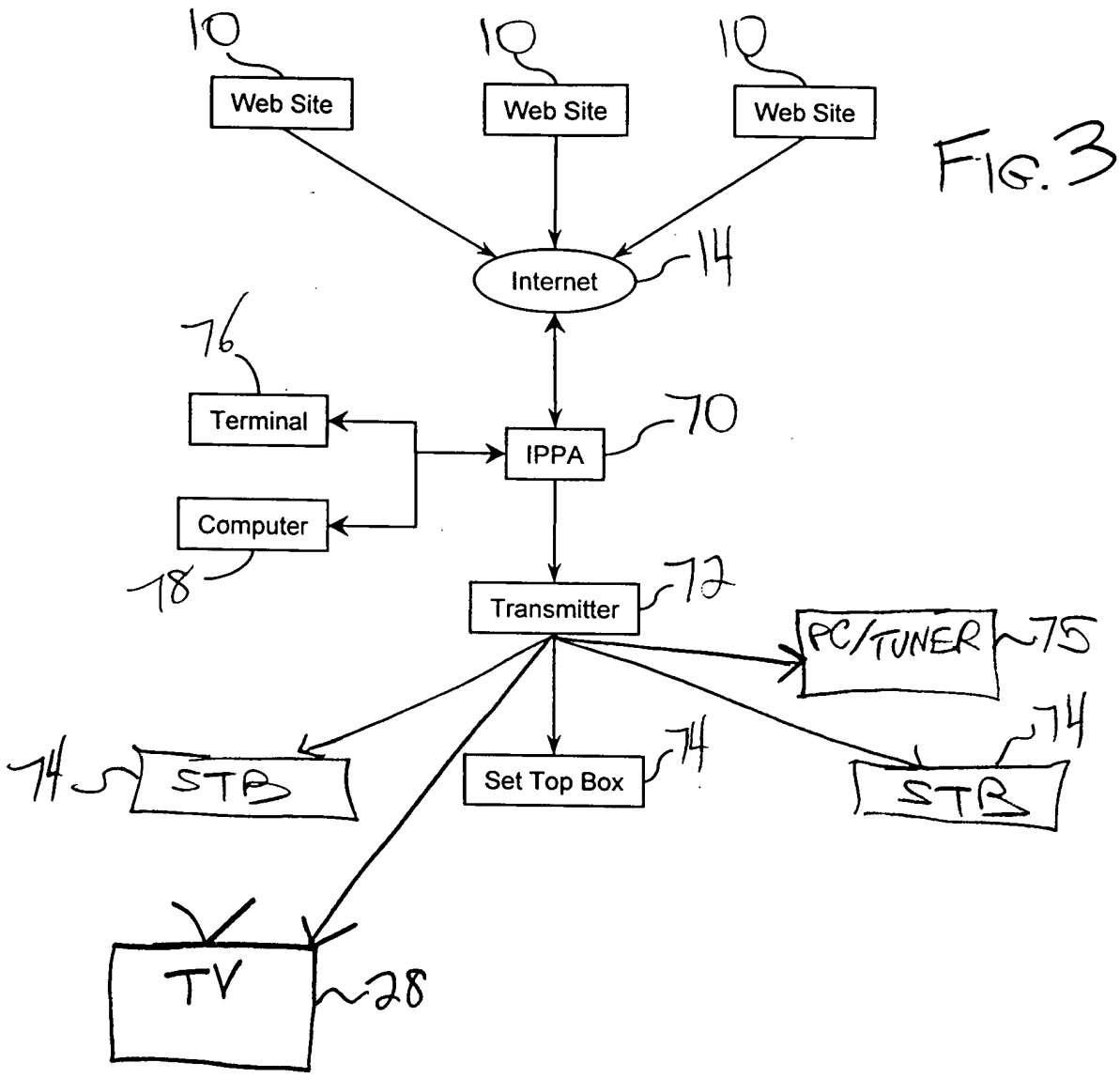

10
Web Site
10
Web Site
10
Web Site
Internet
14
76
Terminal
IPPA
70
Computer
18
Transmitter
72
PC/TUNER
75
74
STB
Set Top Box
74
74
STB
TV
28

FIG. 3

FIG. 4

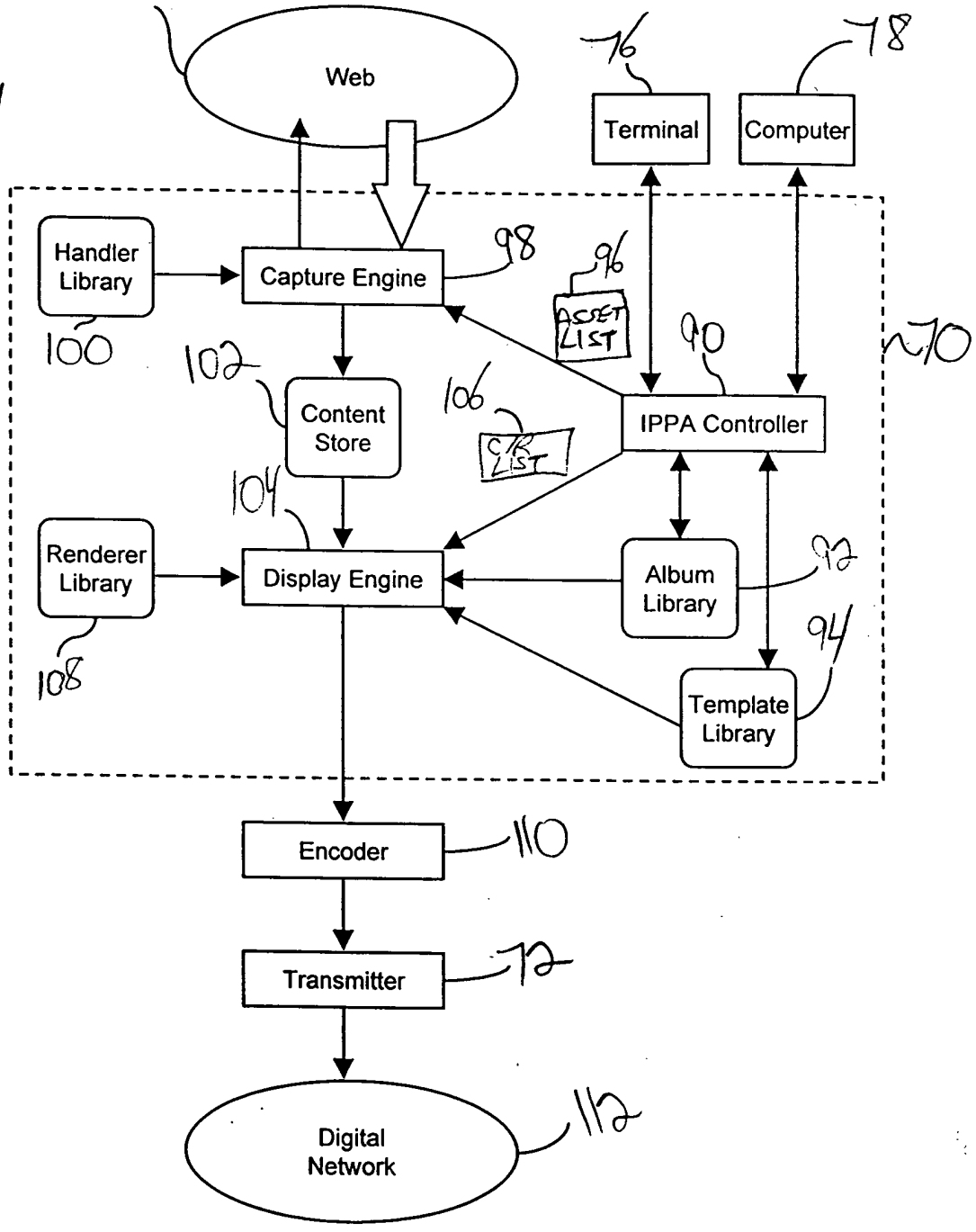

Web
Terminal
Computer
76
78
Handler Library
Capture Engine
98
96
ASSET LIST
100
102
Content Store
106
C/R LIST
IPPA Controller
90
70
104
Renderer Library
Display Engine
Album Library
92
108
94
Template Library
Encoder
110
Transmitter
72
Digital Network
112

Fig. 5

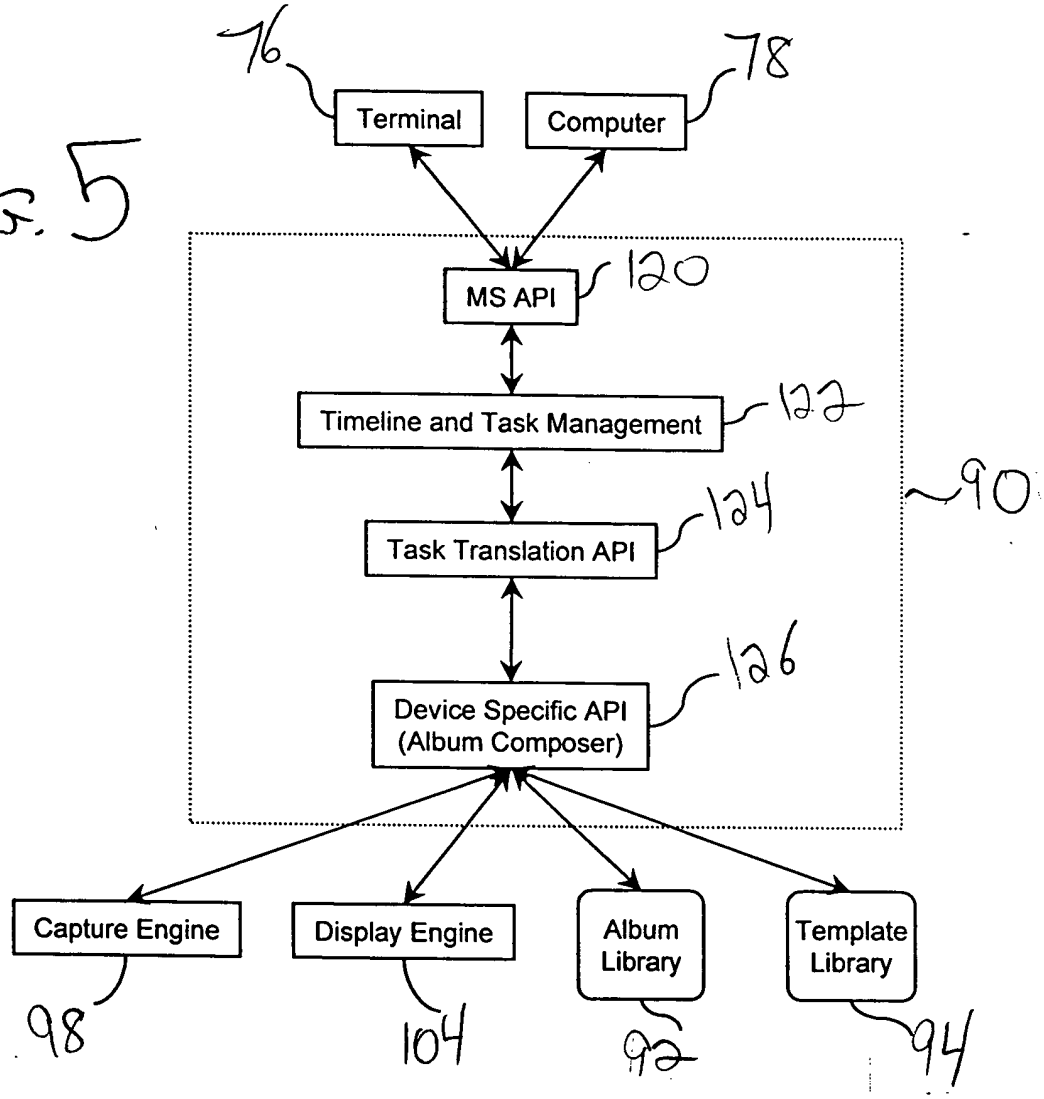

76
Terminal
78
Computer
MS API
120
Timeline and Task Management
122
Task Translation API
124
90
Device Specific API
(Album Composer)
126
Capture Engine
98
Display Engine
104
Album
Library
92
Template
Library
94

FIG. 6

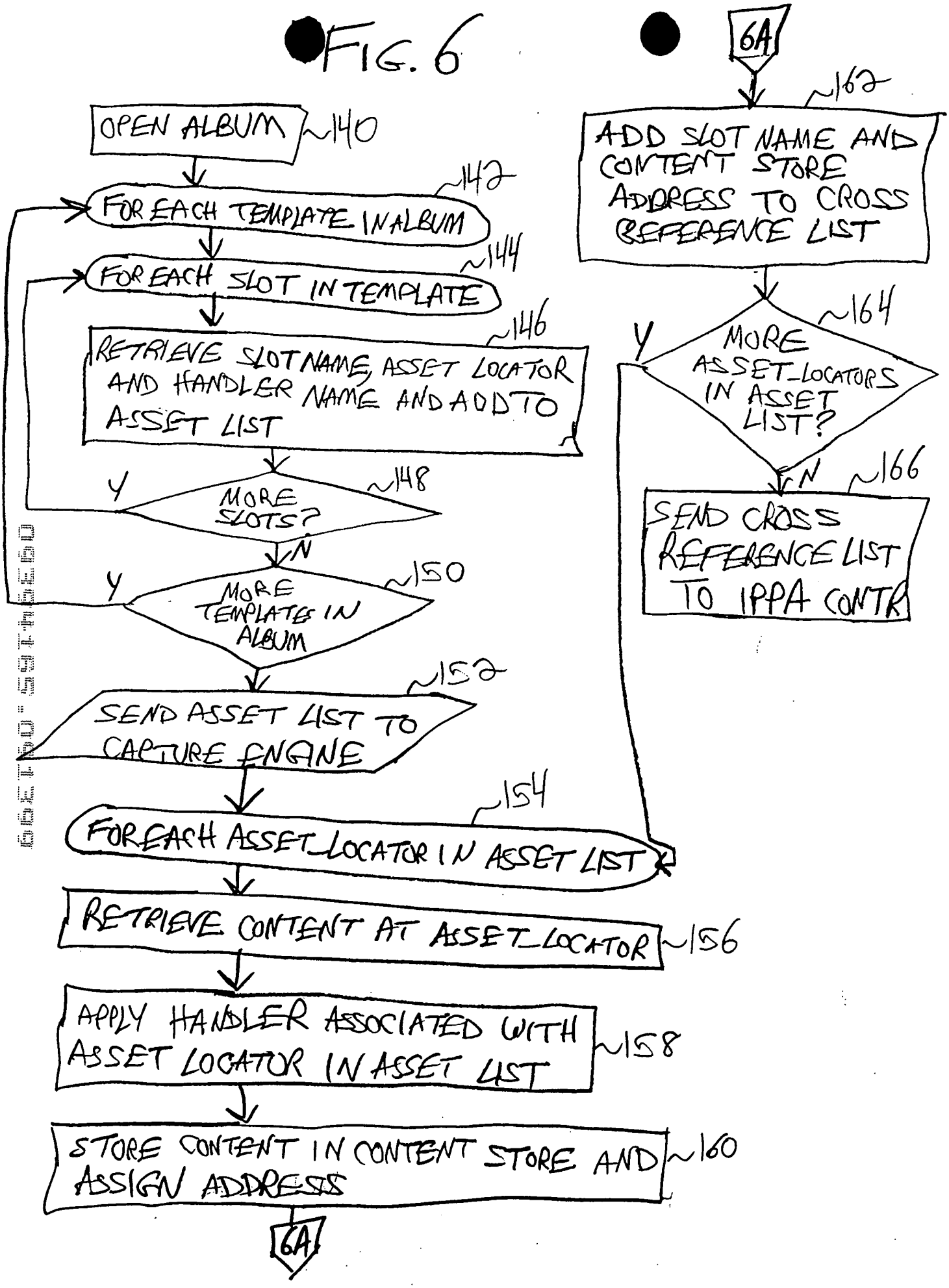

OPEN ALBUM
140
FOR EACH TEMPLATE IN ALBUM
142
FOR EACH SLOT IN TEMPLATE
144
RETRIEVE SLOT NAME, ASSET LOCATOR AND HANDLER NAME AND ADD TO ASSET LIST
146
MORE SLOTS?
148
Y
N
MORE TEMPLATES IN ALBUM
150
Y
SEND ASSET LIST TO CAPTURE ENGINE
152
FOR EACH ASSET_LOCATOR IN ASSET LIST
154
RETRIEVE CONTENT AT ASSET_LOCATOR
156
APPLY HANDLER ASSOCIATED WITH ASSET LOCATOR IN ASSET LIST
158
STORE CONTENT IN CONTENT STORE AND ASSIGN ADDRESS
160
6A
6A
ADD SLOT NAME AND CONTENT STORE ADDRESS TO CROSS REFERENCE LIST
162
MORE ASSET_LOCATORS IN ASSET LIST?
164
Y
N
SEND CROSS REFERENCE LIST TO IPPA CONTR
166

FIG. 7

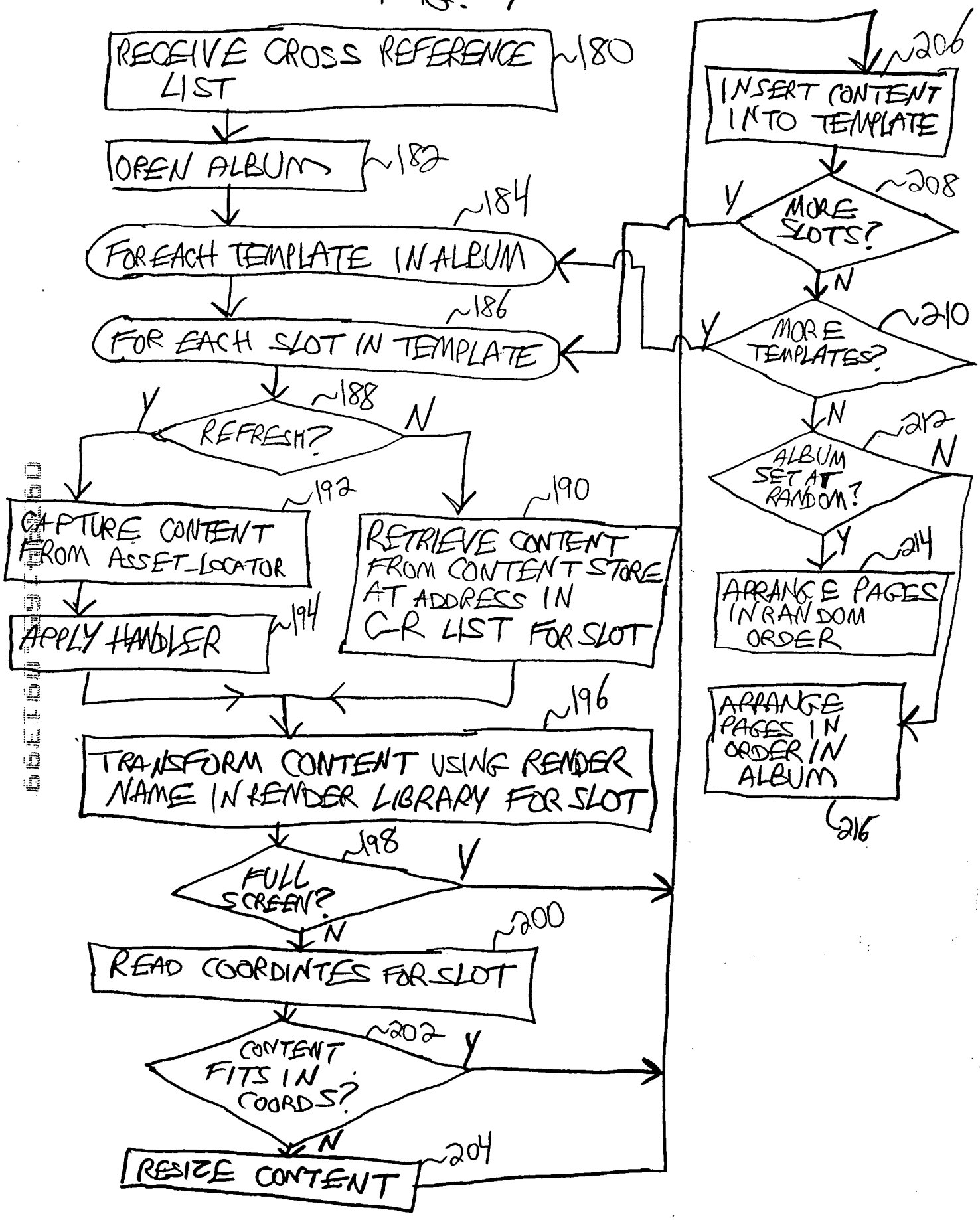

RECEIVE CROSS REFERENCE LIST
180
OPEN ALBUM
182
FOR EACH TEMPLATE IN ALBUM
184
FOR EACH SLOT IN TEMPLATE
186
REFRESH?
188
Y
N
CAPTURE CONTENT FROM ASSET_LOCATOR
192
APPLY HANDLER
194
RETRIEVE CONTENT FROM CONTENT STORE AT ADDRESS IN C-R LIST FOR SLOT
190
TRANSFORM CONTENT USING RENDER NAME IN RENDER LIBRARY FOR SLOT
196
FULL SCREEN?
198
Y
N
READ COORDINATES FOR SLOT
200
CONTENT FITS IN COORDS?
202
Y
N
RESIZE CONTENT
204
INSERT CONTENT INTO TEMPLATE
206
MORE SLOTS?
208
Y
N
MORE TEMPLATES?
210
Y
N
ALBUM SET AT RANDOM?
212
Y
N
ARRANGE PAGES IN RANDOM ORDER
214
ARRANGE PAGES IN ORDER IN ALBUM
216

FIG. 8

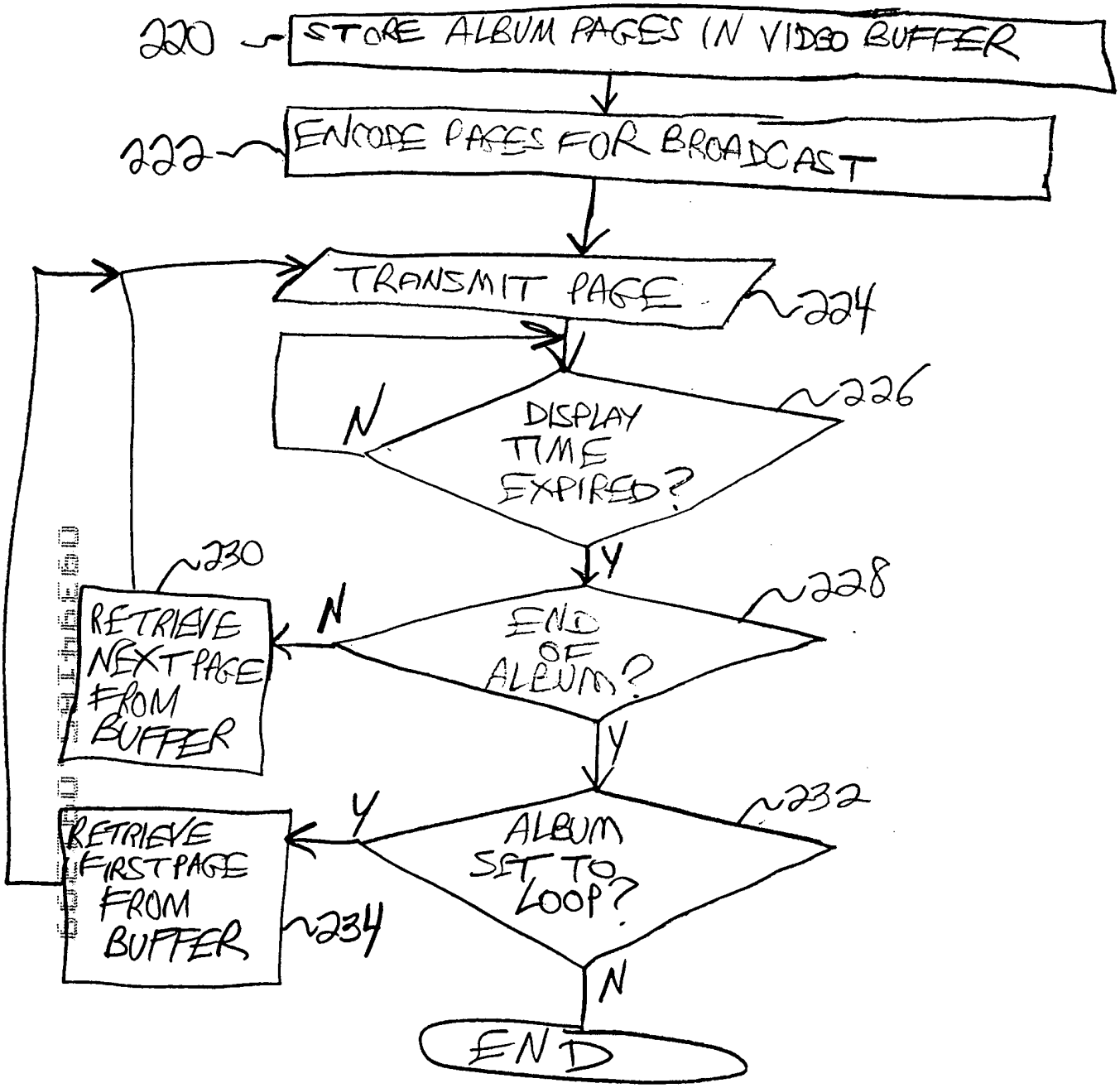

220
STORE ALBUM PAGES IN VIDEO BUFFER
222
ENCODE PAGES FOR BROADCAST
TRANSMIT PAGE
224
DISPLAY TIME EXPIRED?
226
N
Y
END OF ALBUM?
228
N
Y
230
RETRIEVE NEXT PAGE FROM BUFFER
ALBUM SET TO LOOP?
232
Y
N
RETRIEVE FIRST PAGE FROM BUFFER
234
END

FIG. 9

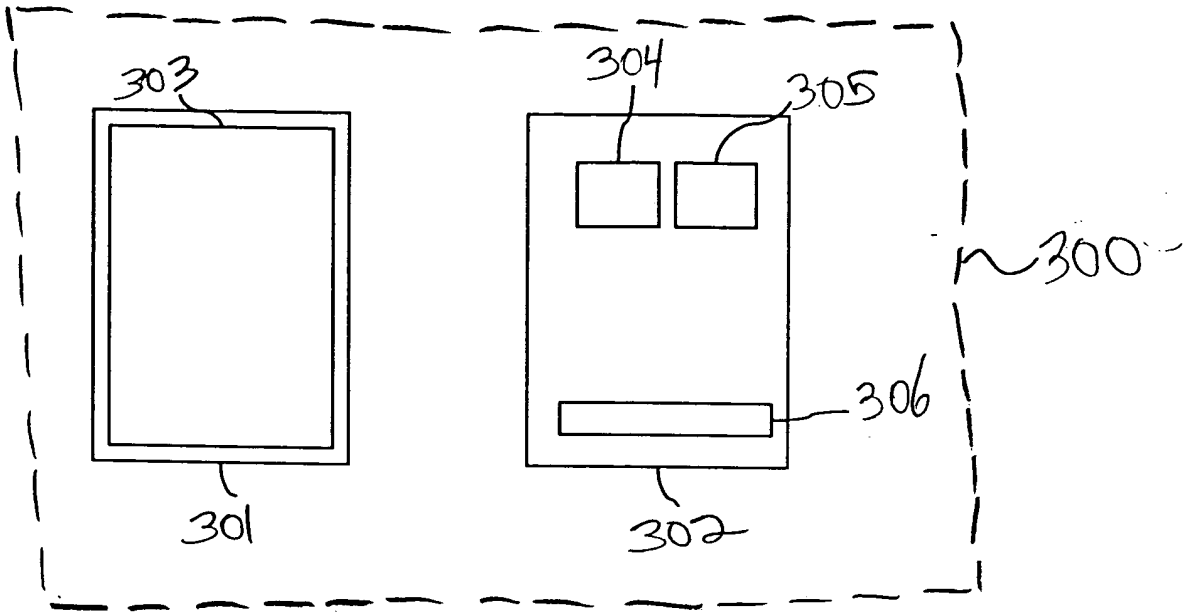


FIG. 10

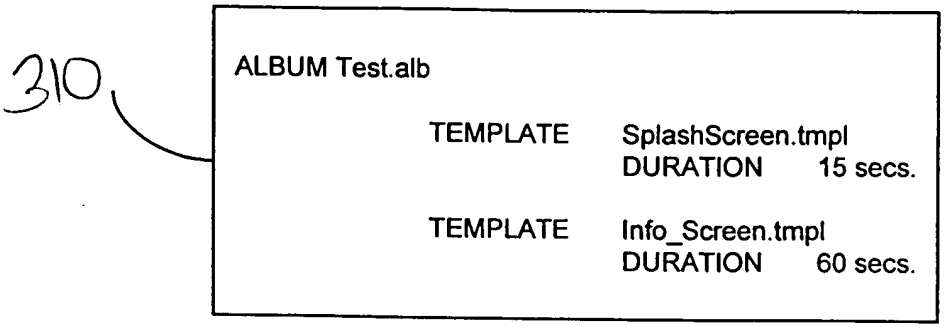

310
ALBUM Test.alb
TEMPLATE SplashScreen.tmpl
DURATION 15 secs.
TEMPLATE Info_Screen.tmpl
DURATION 60 secs.

FIG. 11

312

```
TEMPLATE SplashScreen {
      SLOT  Header
            LOCATION    http://local/SplashScreen.jpg
            HANDLER     jpgHandler.hdl
            RENDERER    {
                  jpgSampleDown.rdr
                  jpgNTSCPixelize.rdr
                  }
            DISPLAY     FULLSCREEN
      }
```

6656750 "5970650

FIG. 12

~314

```
TEMPLATE InfoScreen {

     SLOT WelcomeBanner
          LOCATION   http://www.yshow.com/billac.jpg
          HANDLER    jpgHandler.hdl
          RENDERER   {
               jpgSampleDown.rdr
               jpgNTSCPixelize.rdr
               }
          DISPLAY    [<0,0>,<15,15>]

     SLOT CurrentBill
          LOCATION   http:// www.ysaturday.com/newsbill.txt
          HANDLER    txtHandler.hdl
          RENDERER   {
               txtSmoothFont.rdr
               }
          DISPLAY    [<15,0>,<30,15>]

     SLOT TitleTicker
          LOCATION   http://www.yshow.com/guide/titles.dat
          HANDLER    tickerHandler.hdl
          RENDERER   {
               tickerScrollSmall.rdr
               }
          DISPLAY    [<0,20>,<30,47>] REFRESH


     }
```

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